

JOINT CONFERENCE

to celebrate the 50th anniversary of IHÉS

NOVEMBER 14, 2008 Courant Institute of Mathematical Sciences
New York University, 251, Mercer Street

Scientific
Committee

Mikhail GROMOV (*Institut des Hautes Études Scientifiques & Courant Institute of Mathematical Sciences*)
Nikita NEKRASOV (*Institut des Hautes Études Scientifiques*)
Peter LAX (*Courant Institute of Mathematical Sciences*)
Jalal SHATAH (*Courant Institute of Mathematical Sciences*)

Programme

Morning session

Chair: **Jean-Pierre BOURGUIGNON** (CNRS-Institut des Hautes Études Scientifiques)

09:00 **Peter GODDARD** (Institute for Advanced Study, Princeton)

Reminiscences

09:20 **Leslie GREENGARD** (Courant Institute of Mathematical Sciences)

A New Formalism for Electromagnetic Scattering in Complex Geometry

10:10 **Igor KLEBANOV** (Princeton University)

String Theory and Strong Interactions

11:30 **Dennis SULLIVAN** (SUNY, Stony Brook)

Combinatorial Poincaré Duality and Physical Models

Afternoon session

Chair: **Jalal SHATAH** (Courant Institute of Mathematical Sciences)

02:00 **Cumrun VAFA** (Harvard University)

The Geometry of Grand Unification in String Theory

03:10 **Charles S. PESKIN** (Courant Institute of Mathematical Sciences)

Mathematics of the Heart

04:00 **Jean BOURGAIN** (Institute for Advanced Study, Princeton)

Expansion in Linear Groups and Applications